

Application No. 09/993733
Amendment dated June 28, 2006
After Final Office Action of April 4, 2006

Docket No.: 013190.0101PTUS

AMENDMENTS TO THE CLAIMS

1. (Previously presented) A concrete formwork panel comprising:
a high-density polyethylene plastic core;
a steel facing layer attached to said plastic core;
a metal backing layer attached to said plastic core;
said panel being thicker than 7 millimeters (mm).
2. (Original) A concrete formwork panel as in claim 1 wherein said panel ranges from 9 mm to 15 mm thick.
3. (Original) A concrete formwork panel as in claim 1 wherein said panel is 12 mm thick.
4. (Previously presented) A concrete formwork panel as in claim 1 wherein said panel has a density such that a panel that is 8 feet (2.43 meters) by 2 feet (0.6 meters) weighs 77 pounds or less.
5. (Previously presented) A concrete formwork panel as in claim 1 wherein said metal backing layer is steel.
6. (Previously presented) A concrete formwork panel as in claim 1 wherein one of said steel facing layer and said metal backing layer is made of 0.009 inch (0.23 mm) steel.
7. (Previously presented) A concrete formwork panel as in claim 1 wherein one of said steel facing layer and said metal backing layer is made of 0.013 inch (0.33 mm) steel.
8. (Previously presented) A concrete formwork panel as in claim 1 wherein one of said steel facing layer and said metal backing layer is made of 0.019 inch (0.48 mm) steel.
9. (Previously presented) A concrete formwork panel as in claim 1 wherein said metal backing layer is aluminum.

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10. (Original) A concrete formwork panel as in claim 1 wherein said plastic is foam plastic.

11. (Previously presented) A concrete formwork panel as in claim 10 wherein said foam plastic is 40% to 70% gas, by volume.

12. (Previously presented) A concrete formwork panel as in claim 10 wherein said foam plastic is 50% to 70% gas, by volume.

Claim 13 (Canceled)

14. (Original) A concrete formwork panel as in claim 1 wherein said panel is bent to form a flange.

15. (Original) A concrete formwork panel as in claim 14 wherein said flange has openings formed in it.

16. (Original) A concrete formwork panel as in claim 14 wherein said panel is notched at said bend.

17. (Original) A concrete formwork panel as in claim 16 wherein said bend is a 90° bend.

18. (Previously presented) A concrete formwork panel as in claim 14 wherein said panel includes a panel end, said panel is bent twice to form a first bend and a second bend, said second bend being made closer, measured along the length of said panel, to said panel end than said first bend, said second bend being substantially 180° so that said panel is bent back on itself to form a double-thick flange comprising a first portion of said panel extending from said first bend to said second bend and a second portion of said panel extending from said second bend to said panel end.

19. (Original) A concrete formwork panel as in claim 1 wherein said panel is bent into a hollow columnar form.

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20. (Original) A concrete formwork panel as in claim 19 wherein said columnar form is cylindrical.

Claim 21 (Canceled)

22. (Previously presented) A concrete formwork panel as in claim 1 wherein said facing has a recessed or raised portion forming a design to be impressed in concrete.

23. (Original) A concrete formwork panel as in claim 1 and further including a strengthening rib attached to said metal backing layer.

24. (Previously presented) A concrete formwork panel as in claim 23 wherein said strengthening rib includes a handhold portion adapted to be graspable by a human hand.

25. (Original) A concrete formwork panel as in claim 1 wherein said facing and said backing are attached to said plastic with adhesive.

26. (Original) A concrete formwork system comprising a plurality of concrete formwork panels as in claim 1 and a plurality of fasteners fastening said plurality of panels together.

27. (Original) A concrete formwork system as in claim 26 and further comprising a support framework adjacent said backing.

28. (Original) A concrete formwork system as in claim 27 wherein said framework comprises steel frame members.

Claims 29 - 38 (Canceled)

39. (Previously presented) A concrete formwork panel comprising:
a foam plastic core;
a metal facing layer attached to said plastic core;
a metal backing layer attached to said plastic core;
wherein said foam plastic is 32% to 70% gas, by volume.

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40. (Previously presented) A concrete formwork panel as in claim 39 wherein said foam plastic is 40% to 70% gas, by volume.

41. (Previously presented) A concrete formwork panel as in claim 39 wherein said foam plastic is 50% to 70% gas, by volume.

42. (Previously presented) A concrete formwork panel as in claim 39 wherein said plastic is high-density polyethylene.

43. (Previously presented) A concrete formwork panel as in claim 19 wherein said panel has a first end and a second end, and wherein a first portion of said facing and a first portion of said plastic core are removed at said first end to expose a first surface of a first portion of said backing, which first surface was adjacent to said removed first plastic core portion prior to said removal of said first plastic core portion; a second portion of said facing is removed at said first end to expose a second surface of a second portion of said plastic core, which second surface was adjacent to said removed second portion of said facing prior to said removal of said second portion of said facing; a second portion of said backing and a third portion of said plastic core are removed at said second end to expose a third surface of a third portion of said facing, which third surface was adjacent to said removed third plastic core portion prior to said removal of said third plastic core portion; a third portion of said backing is removed at said second end to expose a fourth surface of a fourth portion of said plastic core, which fourth surface was adjacent to said removed third portion of said backing prior to said removal of said third portion of said backing; and said first and second ends are joined with said plastic core abutting at its ends, said second surface in contact with said third surface, and said first surface in contact with said fourth surface.